

K-RadRacer

OWNER'S MANUAL — Please read before using this equipment.

Your RadioShack K-Rad-Racer can make you a winner! With its digital proportional speed and precise steering, you can drive the racer almost anywhere. Built to 1/12 scale, it can reach speeds of up to 950 feet per minute.

Your racer's double wishbone front suspension and high-performance tires give it good traction on almost any terrain. The front and rear wheel differential gears let you take smooth, sharp corners.

The K-Rad Racer operates on three different frequencies (A, B and C) to let you race against other radio-controlled cars.

Note: You need two 9-volt batteries (one for the transmitter and one for the racer), at least one 9.6-volt rechargeable battery pack for the racer, and a battery pack charger (neither supplied). The rechargeable battery pack and battery pack charger, as well as alkaline battery, are available at your local RadioShack store.

THE FCC WANTS YOU TO KNOW

Your racer or transmitter might cause TV or radio interference even when it is operating properly. To determine whether your racer or transmitter is causing the interference, turn off the racer and release the transmitter's trigger. If the interference goes

away, your racer or transmitter is causing it.

Try to eliminate the interference by:

- Moving your racer and transmitter away from the TV or radio
- Contacting your local RadioShack store for help

If you cannot eliminate the interference, the FCC requires that you stop using your racer and its transmitter.

ATTACHING THE TRANSMITTER'S ANTENNA

Thread the antenna into the transmitter's antenna connector. Make sure the connection is tight.

INSTALLING THE RACER'S ANTENNA TUBE

The antenna tube holds up the racer's antenna wire for the best reception and range. Route the antenna wire's loose end through the tube. Then insert the tube securely into the racer's antenna tube holder.

INSTALLING BATTERIES

Cautions:

- Use only fresh batteries of the required size and recommended type.

 **RadioShack**
www.radioshack.com

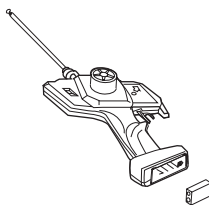
© 2000 RadioShack Corporation. All Rights Reserved.
RadioShack and RadioShack.com are trademarks
used by RadioShack Corporation.

- Never leave dead or weak batteries in the K-Rad Racer or the transmitter.
- If you do not plan to use the K-Rad Racer for several days, remove the batteries. Batteries can leak chemicals that can damage electronic parts.
- Dispose of batteries and battery pack promptly and properly; do not bury or burn them.

In the Transmitter

The transmitter requires one 9-volt battery. For the longest life and best operation, we recommend using a RadioShack alkaline battery.

1. Slide the transmitter's **OFF/ON** switch to **OFF**.
2. To open the battery compartment, press down and slide the cover in the direction of the arrow marked on it.
3. Put the battery in the compartment as indicated by the polarity symbols (+ and -) marked inside.
4. Replace the cover and snap it shut.

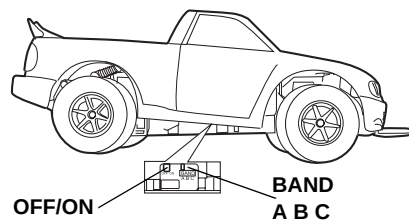


When the transmitter's range decreases, replace its battery.

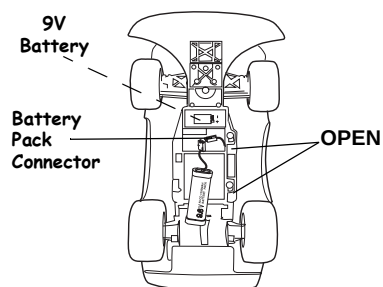
In the Racer

Your racer requires one 9-volt battery and at least one rechargeable 9.6-volt battery pack. Before you use the battery pack, you must charge it using a special battery charger (not supplied). Follow the charger's instructions to charge the battery pack.

1. Slide **OFF/ON** on the racer to **OFF**.



2. Use a coin to turn the battery compartment cover's latches toward **OPEN**.
3. Place the 9V battery in the battery compartment according to the polarity symbols (+ and -) marked inside.



4. Place the battery pack in the recessed area with the battery pack's connector on the same side as the racer's matching connector.
5. Attach the battery pack's white plastic connector to the racer's matching connector. Do not force them together. They only fit together one way.
6. Close the cover.

Caution: Be sure the connectors and wires are positioned so they do not touch any of the racer's moving parts.

If the racer does not respond to the transmitter, replace the 9V batteries in the racer and the transmitter. If the racer loses power, replace or recharge the battery pack.

To remove the battery pack, open the cover as described in Step 2. Then slide the pack toward the pack's connector and lift it out. Unplug the connectors and remove the battery pack.

Cautions:

- Use only the recommended battery pack and charger.
- Do not charge or recharge the battery pack while it is in the racer.
- After you charge or recharge the battery pack, disconnect it from the charger. Overcharging the battery pack could damage it.
- When you disconnect the battery pack from the charger, do not pull on the connector's wires. You might damage it.

Notes:

- If you want to run your racer for an extended period of time, we suggest you purchase an extra battery pack. You can charge one while you use the other.
- Occasionally, fully discharge the battery pack before you recharge it. Otherwise, the battery pack loses its ability to fully charge.

Important: The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates RadioShack is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-THE-SHACK (1-800-843-7422) for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. Ra-



dioShack's involvement in this program is part of the company's commitment to preserving our environment and conserving our natural resources.

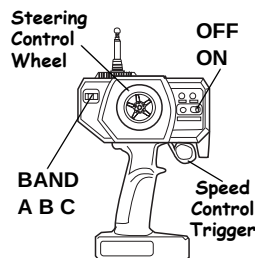
DRIVING THE K-RAD RACER

Warnings:

- This racer can reach much higher speeds than most radio-controlled cars. Be careful when you use the racer to avoid high-impact collisions with people and objects.
- Never play with your K-Rad Racer in the street.

Caution: Do not drive the K-Rad Racer in puddles, on a wet floor, on sand, or in mud, rain, or snow. These can damage it.

1. Extend the transmitter's antenna to its full length.
2. Slide the OFF/ON on the transmitter and the racer to ON.
3. Select the specific frequency by setting BAND A B C on the transmitter and the racer to the same band.
4. Use the transmitter's trigger and wheel to drive and steer the racer.



Speed Control Trigger

- Pull the trigger to the left to move forward.
- Pull the trigger all the way to the left for maximum speed.
- Push the trigger to the right to move backward.
- Release the trigger to stop.

Steering Control Wheel

- Turn the steering control left to move left.
- Turn the steering control right to move right.
- Release the steering control to drive straight.

Caution: If the racer gets stuck under an object, immediately release the control trigger and retrieve the racer.

Note: The K-Rad racer has a built-in thermal sensor so the racer automatically shuts off if the motor gets too hot. Wait a few seconds until the motor cools off to drive the racer again.

5. Adjust TRIM I and TRIM II as desired. See "Adjusting the Trim Controls" to set the trim as desired.
6. When you finish driving the racer, slide ON/OFF on the racer and on the transmitter to OFF.

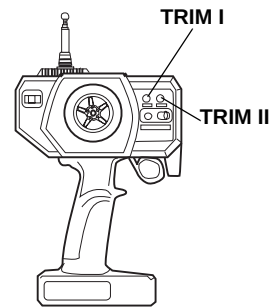
Warning: Do not touch the motor immediately after using the racer, as it might become hot during use.

Caution: Running your racer continuously for long periods generates high heat levels. Heat causes wear and tear on the motor. To help keep heat levels down, when your racer's battery pack runs down, let the racer cool for at least 10 minutes before installing a new or newly charged battery pack.

Adjusting the Trim Controls

The neutral trim control (TRIM I above the OFF/ON switch) lets you fine-tune the speed control so the racer stops completely when you release the speed control.

The steering trim control (TRIM II above the OFF/ON switch) lets you fine-tune the steering so the racer drives in a straight line when you set the steering control to its center position.



1. Place the racer on a block or turn it over so the tires do not touch the ground.

Note: Do not touch the tires or the steering control during this adjustment.

2. Slide the OFF/ON switches on the transmitter and the racer to ON.
3. If the tires move, turn TRIM I until the tires stop.

Caution: Never set TRIM I to make the racer continually move.

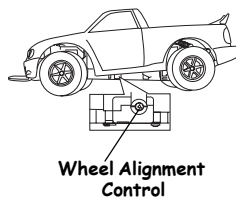
If the front tires appear to angle left or right, adjust TRIM II until the tires appear to be straight.

4. When you finish the adjustment, slide OFF/ON on the racer and on the transmitter to OFF.

Note: You might have to further fine-tune the trim controls after using the racer for awhile.

WHEEL ALIGNMENT

If the racer does not go in a straight line when you pull the speed control trigger, adjust the wheel alignment control on the side of the racer.



Turn the wheel alignment control toward L (left) if the racer is pulling to the right, or toward R (right) if the racer is pulling to the left.

RACING MULTIPLE RACERS TOGETHER

The K-Rad Racer and other radio-controlled cars use specific frequencies to operate. Racers with different control frequencies can race together without interference. Racers with the same frequency cannot.

The following chart shows the control frequencies for your racer. You can select any of these bands to operate your racer.

Band	Frequency
A	27.095 MHz
B	27.145 MHz
C	27.195 MHz

HELPFUL HINTS

- If the racer's motor runs but it does not respond to the transmitter, move closer to the racer and try again.
- If someone uses a CB nearby, it might interfere with control of the racer. If this happens, move the racer away from the CB.
- If the racer moves slowly, and you just installed a fully charged battery pack, check the wheel mechanisms for lint, thread, hair or dust.

CARE

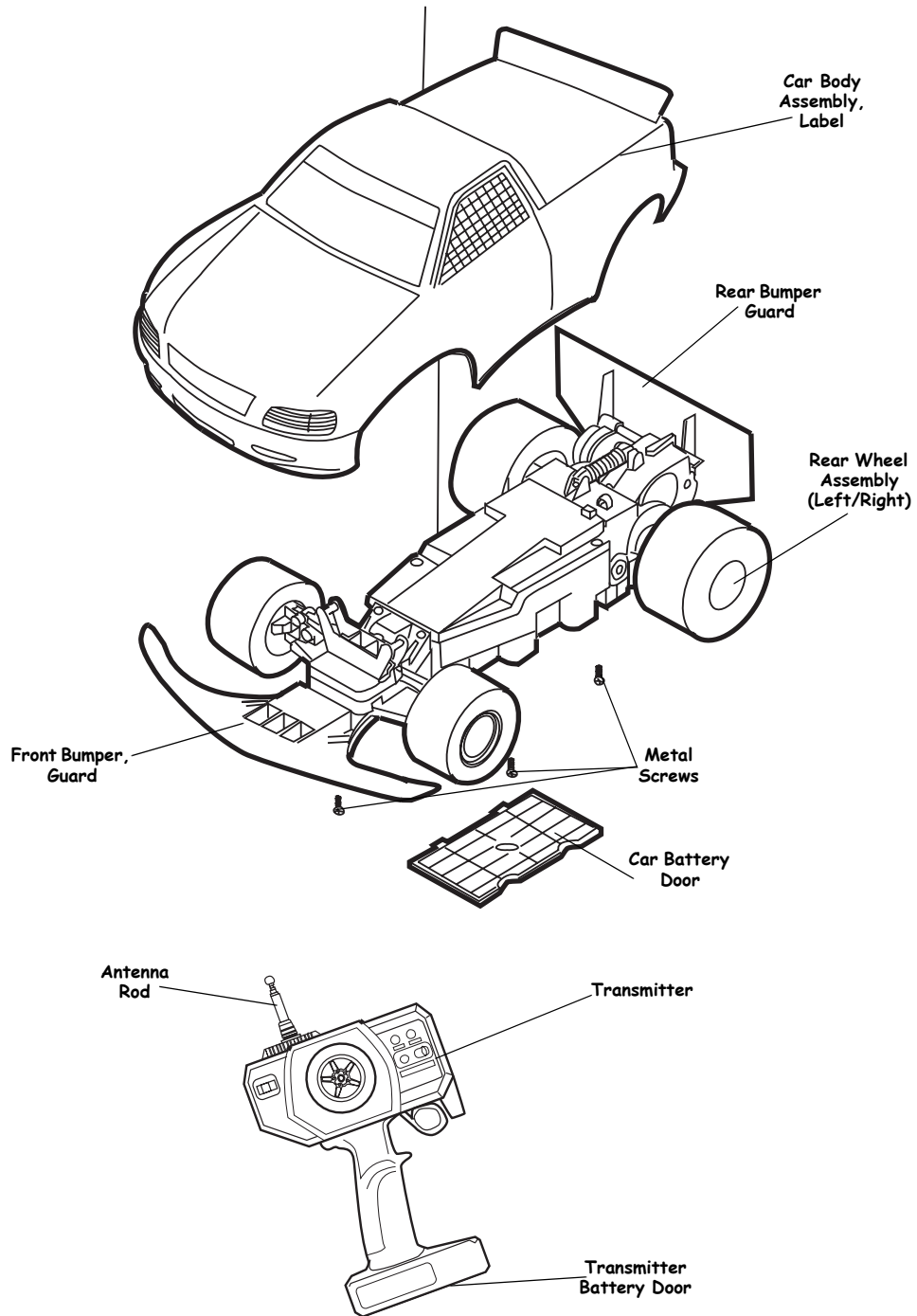
Keep the racer dry; if it gets wet, wipe it dry immediately. Use and store the racer only in normal temperature environments. Handle the racer carefully; do not drop it. Keep the racer away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the racer's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your racer is not performing as it should, take it to your local RadioShack store for assistance. If the trouble is affecting the telephone lines, the phone company can ask you to disconnect your racer until you have resolved the problem.

USER-REPLACEABLE PARTS

You can order replacement parts for your racer at your local RadioShack store. Identify the part(s) you need from the exploded view, then find the corresponding part number in the parts list.

Exploded View



Parts List

Description	RSU #
Transmitter	12273975
Antenna rod	10540078
Receiver Antenna Wire	12093324
Antenna tube	10681781
Car Battery Door	12273983
Transmitter Battery Door	12194023
Hardware Kit Consists of: Metal Screw 3 x 22 pt (4)	12273991
Rear Wheel Assy (Left/Right)	12274007
Front Bumper, Guard	12274015
Rear Bumper, Guard	11914645
Car Body Assembly, Label	12274023
Owner's Manual	12274049

Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company- owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, crash, collision, impact, violent contact, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RadioShack Customer Relations, 200 Taylor Street, 6th Floor, Fort Worth, TX 76102

We Service What We Sell

12/99

RadioShack Corporation
Fort Worth, Texas 76102

60-4267
07A00
Printed in Hong Kong